

#8

Docket No.: PF-0334-2 DIV

Inventors: Hillman et al.

Title: NEW PHOSPHATIDYLINOSITOL 4,5-BISPHOSPHATE 5-PHOSPHATASE
Serial No.: 09/892,287

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



1	[MDVLSPLS]	- - - - -	- - - - -	- - - - -	638789
1	AR - - - - -	- - - - -	- - - - -	- - - - -	g1399105
1	VT [P] GAESRAPCGDSSGGCVRSAGASMDQSVAIQETL	- - - - -	- - - - -	- - - - -	g1019103
1	[MEPPPLF] VGAQPLA - - - - -	- - - - -	- - - - -	- - - - -	g1420920
9	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
41	AEGEYCVIAVQGVLCEGDSRQSRLLGTVRYRLEHGGQEHA	- - - - -	- - - - -	- - - - -	g1019103
28	CALT - - - - -	- - - - -	- - - - -	- - - - -	LAQRNGQYE g1420920
9	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
81	LFLYTHRRMAITGDDVSLDQIVPVSRDFTLEEVSPPDGELY	- - - - -	- - - - -	- - - - -	g1019103
41	LIIQLHEK - - - EQHVQDIIPIINSHFRCVQEAEETLLI	- - - - -	- - - - -	- - - - -	g1420920
9	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
121	ILGSDDVTVQLDTAELSLVFQLPFGSQTRMFLHEVARACPG	- - - - -	- - - - -	- - - - -	g1019103
75	DIASNSSGCKIRVQGDWI - - - RERRFEIPDEEHCLK	- - - - -	- - - - -	- - - - -	g1420920
9	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
161	FDSATRDPEFLWLSRYCAELEMPTPRGCNSALVTWP	G	g1019103		
107	FLSAVLAAQK - - - AQSQLLVPEQKDSSS - - - W - -				g1420920
9	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
201	YATIGGG - - SNFDGL - - RPNKGVPMDOSSRGQDKPE	S	g1019103		
133	YQKLDTKDKPSVFSGLLGFEDNFSSMNLDKKINSQNQPTG				g1420920

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FIGURE 2A



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BY	CLASS	SUBCLASS
DRAFTSMAN		

9	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
236	L Q P R Q N K S K S E I T D M V -	R S S T I T V S D K A H I L S -	M Q K F -	-	-	-	-	g1019103
173	I H R E P P P P F S V N K M L P R E K E A S N K E Q P K V T N T M R K L F V P	P	g1420920					
9	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
271	G L R D T I V K S H L L Q K E E D Y T Y I Q N F R F F A G T Y N V N G Q	g1019103						
213	N T Q S G Q R E G L I K H I L A K R E K E Y V N I Q T F R F F V G T W N V N G Q	g1420920						
9	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
307	S P K E C L R I W L S N G I Q A P D V Y C V G F Q O E L D L S K E A F F F H D T P	g1019103						
253	S P D S G L E P W W L N C D P N P P D I Y C I G F Q E L D L S T E A F F Y F E S V	g1420920						
9	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	638789
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
347	K E E E W F K A V S E G L H P D A K Y A K V K L I R [L V G I M [M L L L Y V K Q E H]	g1019103						
293	K E Q E W S M A V E R G L H S K A K Y K K V Q L V R L V G M M L L I F A R K D Q	g1420920						
31	[L P Y I Q I L S T K S T P T G L F G Y W G N K G G V N I C L K L Y G Y Y V S I I]	g1399105						
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
387	A A Y I S E V E A E T V G T G I M [G R M G N K G G V A [I] R F Q H N T S I C V V	g1019103						
333	C R Y I R D I A [T] E T V G T G I M G K M G N K G G V A V R F V F H N T T F C [I] V	g1420920						
71	[N C H L P P H I S N N Y Q R L E H F D R I - L E M O N C E - [G R D I P] - - [N I L]	g1399105						
3	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	g1399105
427	N S H L A A [H] E E Y E R R N Q D Y K D I C S R [M Q F Q Q P D P S L P P L T] I S	g1019103						
373	N S H L A A [H] V E D F E R R N Q D Y K D I C A R M S F V V P N Q T L P Q L N I M	g1420920						

FIGURE 2B

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APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

107	D H D L I I W F G D M N F R I E D F G L H F V R E S I K N R C Y G G L W E K D Q	638789
3	- - - - - G L H F V K F A I D S D Q L H Q L L W E K D Q	91399105
467	N [H D] V I L [W L G D L N Y R I E E L D V E K V K K L I E E K D F Q M L Y A Y D Q	91019103
413	K [H E] V V I W L G D L N Y R L C M P D A N E V N K K D L Q R L L K F D Q	91420920

147	L S I A K K H D P L L R E F Q O E G R L L F P P T Y K F D R N S N D Y D T S E K K	638789
25	L N M A K N T W H I L K G F Q E G P L N F A P T F K F D V G T N K Y D T S A K K	g1399105
507	L K I Q V A A K T V F E G C F T E G E L T F Q P T Y K Y D T G S D D W D T S E K C	g1019103
453	L N I Q R T Q K K A F V D F N E G E I K F I P T Y K Y D S K T D R W D S S G K C	q1420920

187	R K PAW T DRI L W R L K K R O P C A G P D T P I P P A S H F S L S L R G Y S S	638789
65	R K PAW T DRI L W K V K - A P G G P S P S G R K S H R L Q V T Q H S Y R S	91399105
547	R [A] PAW C DRI L W K G K -	91019103
493	R V PAW C DRI L W R G T -	91420920

227	H M T Y G I S D H K P V S G T F D L E L K P L V S A P L I V L M P E D L W T V -	638789
104	H M E Y T V S D H K P V A A Q F L Q F A F R D D M P L V R L E V A D E W V R -	g1399105
570	H M A L K T S D H K P V S V F D I G V R V V N D E L Y R K T L E E I V R S L D	g1019103
516	H M E L K T S D H K P V S A L F H I G V K V V D E R R Y R K V F F E D S S V R M D	q1420920

266	- E N D M M V S Y S S T S -	[D F P S S P W D W I G L R D Y N D - - -	638789
143	- P E Q A V Y R M E T - V F A R S S W D W I G L Y R V G F R H C K D - - -	91399105	
610	K M E N A N I P S V S L S K R E F C F Q N V K Y M Q L K V E S F T I - H N G Q V 91019103		
556	R M E N D F L P S S L E L S R R E F V F E N V K F R O L O K G K F O I S N N G O V 91420920		

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FIGURE 2C



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317	L N Q V Y I D I S N I P T T E D - - - - -	[E] [F] 638789
192	T Y Q V T F S E E S L I P K G H G - - - - -	- - - - - D [F] g1399105
689	L F V N K T T A T K L N S G E D K I E D I L V L H L D R G K D Y F L S V S G N Y g1019103	- - - - -
636	V Y V S K D S V T I L N S G E D K I E D I L V L H L D R G K D Y F L T I S G N Y g1420920	- - - - -
335	L L C Y Y S N S L R S V V G I S R P F - Q I P - - - - -	638789
210	I L G Y Y S H N H S I L I G I T E P F - Q I S L P S - S E L A S S S T D S S G T g1399105	- - - - -
729	L P S C F G S P I H T L C Y M R E P I L D L P L E T I S S E L - - - - -	g1019103
676	L P S C F G T S I E A L C R M K R P I R E V P V T K L I D L E E D S F L E K E K g1420920	- - - - -
357	- - - - -	638789
248	S - - - S E G E D D S T L E - - - - -	- - - - -
759	T L M P V W T G D D G S Q L D S P M E I P K E L W M M V D Y L Y R N A V Q Q E D g1019103	- - - - -
716	S L L Q M V P L D E G A S - E R P L Q V P K E I W L L V D H L F K Y A C H Q E D g1420920	- - - - -
357	- - - - -	638789
282	L A R F P G L A - - - - -	- - - - -
799	L F Q Q P G L I R S E F E H I R D C L D T G M I D N L S A S N H S V A E A L L F g1019103	- - - - -
755	L F Q T P G M Q E E L Q Q I I D C L D T S I P E T I P G S N H S V A E A L L I F g1420920	- - - - -
357	- - - - -	638789
313	R V A - P D R S S N G S S R G S S E E G P S G L P G P W A F P P A V P R S - - -	g1399105
839	L E S L P E P V I C Y S T Y H N C L E C S G N Y T A S K Q V I S T L P I F H K N g1019103	- - -
795	L E A L P E P V I C Y E L Y Q R C L D S A Y D P R I C R Q V I S Q L P R C H R N g1420920	- - -
357	- - - - -	638789
349	L G L L P A L - R L E T V D P G G G S W G P D R E A L - - - A [P] N 91399105	- - -
879	V F H Y L M A F L R E L L K N S A K N H L D E N I L A S I F G S L L L R N P A [G] g1019103	- - -
835	V F R Y L M A F L R E L L K F S E Y N S V N A N M I A T L F T S L L R P P [P] N 91420920	- - -

FIGURE 2D